



Personal  
System/2  
Micro Channel

IBM Hardware  
Product Guide



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11/88  
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G360-2838-00



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# INTRODUCTION

This is a supplement to the IBM Personal System/2® Micro Channel OEM Hardware Product Guide. This supplement presents information about current IBM products that directly attach to the PS/2™ Models 50 through 80 which incorporate Micro Channel™ Architecture.

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**PRODUCT****DESCRIPTION**

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**16-BIT MEMORY**

IBM Personal System/2  
80286 Memory Expansion  
Option (6450344)

Provides 512Kb of extended memory as standard for the IBM PS/2 Models 50 and 60. Up to three 80286 Memory Expansion Kits with 512Kb each can be added to the expansion option to provide a total of 2Mb of memory for each card.

IBM Personal System/2  
0-8Mb Expanded Memory  
Adapter/A (1497259)

A 0-8Mb *expanded* memory adapter for IBM PS/2 Models 50 and 60 providing up to 8Mb of EMS LIM 3.2 memory function with IBM PC DOS. The adapter will also operate as extended memory with IBM Operating System/2™ Standard and Extended Editions.

**32-BIT MEMORY**

IBM Personal System/2  
80386 Memory Expansion  
Option (6450367)

Provides 2Mb of 80 nanosecond memory as standard. Up to two memory expansion kits can be added to the card to provide a total of 6Mb of memory for the IBM PS/2 Model 70 and 80.

IBM Personal System/2  
2-8Mb 80386 Memory Expan-  
sion Option (6450605)

Provides a single full-length extended memory with 2Mb of 85 nanosecond memory as standard. Up to three 1Mb or 2Mb memory module kits can be added to the card to provide 8Mb of memory to the IBM PS/2 Models 70 and 80.

**GRAPHICS ADAPTERS**

IBM Personal System/2  
Display Adapter 8514/A  
(1887972)

An advanced function display adapter. When configured with the IBM 8514 Color Display, this adapter is suited for applications that require advanced function, high performance and large screen content (1024 x 768 format).

| PRODUCT | DESCRIPTION |
|---------|-------------|
|---------|-------------|

## DEVICE ATTACHMENT

|                                                                                   |                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IBM Personal System/2<br>5.25-inch External Diskette<br>Drive Adapter/A (6450245) | This feature allows the IBM 4869 5.25-inch External Diskette Drive to be connected. The feature consists of an adapter card, an internal cable assembly, and a feature card.                                                                  |
| IBM Personal System/2 6157<br>Tape Drive Adapter<br>(92X1458)                     | Supports attachment of the IBM 6157 Streaming Tape Drive.                                                                                                                                                                                     |
| IBM 3117 Adapter/A<br>(65X1925)                                                   | Provides the capability of attaching the IBM 3117 Scanner. The 3117 Adapter/A provides the function of 3117 mechanical control, CCD image sensor control, and video signal processing to capture image data from IBM 3117 Scanner operations. |
| IBM Personal System/2 High<br>Speed Adapter/A (65X1905)                           | Provides an RS-422A standard industry interface for attachment of the IBM 3118 Scanner or the 3117 Scanner and other compatible RS-422A devices.                                                                                              |
| IBM 3119 Adapter/A<br>(94X2415)                                                   | Provides the capability of attaching the IBM 3119 PageScanner to the IBM PS/2 Models 50, 60, 70 and 80.                                                                                                                                       |
| IBM Personal Pageprinter<br>Adapter/A Card (75X8267)                              | Provides a 10 MHz M68000 coprocessor and program and page buffer storage that are designed to provide page formatting and printer control for the 4216 Personal Pageprinter Model 020. (Used with the IBM Personal Publishing System.)        |
| IBM 4055 InfoWindow Display<br>Attachment (83X9239)                               | Provides connection between the InfoWindow Display and the PS/2 Models 50 and 60. The InfoWindow Attachment Kit includes two new attachment cards that provide the text, graphics, and interface controls.                                    |
| IBM 4250 Print Adapter/A<br>(70X8320)                                             | Provides the attachment hardware to attach an IBM 4250/II ElectroCompositor or an IBM 4250 Printer Model 001 to an IBM PS/2 Model 50, 60, 70 or 80.                                                                                           |

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**PRODUCT**

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**DESCRIPTION**

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**COMMUNICATIONS**

IBM Personal System/2  
Multi-Protocol Adapter/A  
(6450348)

Provides a full-duplex or half-duplex multi-protocol serial data transmission channel. It supports asynchronous, bisynchronous, HDLC, or SDLC protocols. It supports modems or direct attachment at speeds of up to 19,200 bps and supports automatic protocol switching via software at setup. (Does not support the IBM PS/2 Model 8580-111 and 8580-311.)

IBM Personal System/2  
Multi-Protocol Adapter/A  
(6451003)

Provides a full-duplex or half-duplex multi-protocol serial data transmission channel. It supports asynchronous, bisynchronous, HDLC, or SDLC protocols. It will support modems or direct attachment at speeds of up to 19,200 bps and supports automatic protocol switching via software at setup. Supports all IBM PS/2 Models 50, 60, 70 and 80.

IBM Personal System/2  
300/1200 Internal Modem/A  
(6450349)

Provides the capability to transmit data in duplex mode over the Public Switched Telephone Network at 300 or 1200 bits per second and supports the AT command set.

IBM Personal System/2 Dual  
Async Adapter/A (6450347)

Provides asynchronous communications on two independent RS232C ports. The feature is programmable and supports communications speeds from 50 to 19,200 bps. This adapter supports signal transmission across 50 feet of cable.

IBM Realtime Interface Co-  
Processor Multiport/2  
(09F1897)

Provides support for up to 8 serial input/output ports at speeds up to 38.4 Kbps. It supports asynchronous, bisynchronous, HDLC, or SDLC protocols. This adapter provides 512Kb dual-ported memory and supports the PS/2 Models 50, 60, 70 and 80.

IBM Realtime Interface Co-  
Processor Multiport/2 with  
1Mb Memory (16F1820)

Provides the same function as the IBM Realtime Interface Co-Processor Multiport/2 plus increased memory capacity of 1Mb. This adapter supports the PS/2 Models 50, 60, 70 and 80.

X.25 Interface  
Co-Processor/2 (16F1858)

Provides a powerful and flexible interface for applications requiring a high speed synchronous or asynchronous adapter. Supports the IBM PS/2 Models 50, 60, 70 and 80.

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**PRODUCT****DESCRIPTION**

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**NETWORKING**

IBM Token-Ring Network  
Adapter/A (69X8138)

Provides for connection to the IBM Token-Ring Network. It contains a microprocessor operating under control of adapter resident microcode. The adapter transmits and receives at a speed of 4 million bits per second using protocols conforming to IEEE 802.5 and ECMA 89 standards.

IBM Token-Ring Network  
Trace and Performance  
Adapter/A (96X5774)

The adapter works in conjunction with the IBM Token-Ring Trace and Performance Program, and provides visibility to the data on the ring as well as ring utilization statistics.

IBM PC Network Broadband  
Adapter II/A (1501222)

The adapter includes a modular broadband modem for connecting to the IBM PC Network. The adapter features a 2 megabit per second transmission speed with a CSMA/CD access protocol and supports the Token-Ring 802.2/LLC protocols via the IBM Local Area Network Support Program.

IBM PC Network Adapter II/  
A-Frequency 2 (96X5647)

Provides additional RF channels for connecting to the broadband IBM PC Network. The broadband channels used by the Frequency 2 adapter are 2' and O.

IBM PC Network Adapter II/  
A-Frequency 3 (96X5648)

Provides additional RF channels for connecting to the broadband IBM PC Network. The broadband channels used by the Frequency 3 adapter are 3' and P.

IBM PC Network Baseband  
Adapter/A (1501223)

The card includes a modular baseband modem for connecting to the IBM PC Network. The adapter features a 2 megabit per second transmission speed with a CSMA/CD access protocol and supports the Token-Ring 802.2/LLC protocols via the IBM Local Area Network Support Program.

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**PRODUCT****DESCRIPTION**

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**WORKSTATION EMULATION**

IBM 3270 Connection  
(83X9702)

Provides 3270 coaxial cable attachment to the IBM 3174, 3274 and 3276 Control Units, the 4321, 4331 or 4361 Processor Display/Printer Adapter, the 4361 Workstation Adapter, and the 9370 Workstation Subsystem Controller.

IBM System 36/38 Work-  
station Emulation Adapter/A  
(69X6279)

Provides attachment capability for the PS/2 Models 50, 60, 70 and 80 to the IBM System/36 and IBM System/38 and is attached via the normal twinaxial interface using the IBM System 36/38 Workstation Emulation Attachment Cable.

IBM Display Station Emu-  
lation Adapter/A (92X0743)

Provides emulation capability for twinaxial attachment of the PS/2 Models 50, 60, 70 and 80 as a workstation to the IBM 5520.